



IEEE Region 1 Awards

Region 1 Meeting

9 March 2013

Nita Patel

2013 R1 Awards Chair

Recognition

- ▶ IEEE volunteers give up their personal time to participate in activities, so it is important to thank them for that sacrifice and recognize them for their efforts.
- ▶ Take the time to make people feel better about themselves and increase motivation.
- ▶ Candidates do more than what is generally expected of them in whatever position they worked in; Candidates who in fact went the extra mile!

R1 Award Categories

▶ **IEEE Region 1 Individual Awards**

- Technological Innovation (Academic)
- Technological Innovation (Industry or Government)
- Managerial Excellence in an Engineering Organization
- Outstanding Teaching in an IEEE area of interest (University or College)
- Outstanding Teaching in an IEEE Area of interest (Pre-University or College)
- Enhancement of the relationship between IEEE and Industry
- Enhancement of the IEEE or Engineering Profession's Image with the Public
- Outstanding Support for the Mission of the IEEE, MGA, REGION 1 and Section

R1 Award Categories

- ▶ **IEEE Region 1 ALEX GRUENWALD PACE Award**
- ▶ **IEEE Region 1 GOLD Award**
- ▶ **IEEE Region 1 William Terry Distinguished Service Award**

<http://sites.ieee.org/r1/committees/awards/>

Eligibility & Sponsors

- Only Region 1 IEEE members are eligible to receive a Region 1 Award.
- Any IEEE Region 1 member, chapter, subsection, section, or council may sponsor a Nomination for a Region 1 Award.
- The Nomination Forms can be obtained via the website or by request to the R1 Awards and Nominations Chair

Eligibility & Sponsors

- ▶ Members of the Awards and Nominations Committee (chair and area chairs) are not eligible for the R1 awards.
- ▶ Individuals, groups or sections will be limited to no more than one (1) Region 1 award every four (4) years. For example, if an individual wins an award in 1900, then that individual would be eligible for another R1 award in 1904 and after.
- ▶ The number of Region 1 awards to be given in any calendar year will not exceed 0.1% of the current Region 1 membership.

Other Awards

➤ ***EAB Awards - deadline 15 April 2013***

http://www.ieee.org/education_careers/education/awards/calls.html

- IEEE Educational Activities Board (EAB) Awards recognize and honor individuals and companies for major contributions to engineering and technical education.

➤ ***MGA Outstanding Small & Large Section Award - deadline 15 May 2013***

<http://mga-awards-section.myreviewroom.com/>

- The purpose of the MGA section awards is to recognize one large Section and one small Section (across all Regions) for their excellent work and successful efforts in fulfilling the educational and scientific goals of IEEE for the benefit of the public.

Other Awards

- ▶ **IEEE-USA Awards - deadline 15 June 2013**
<http://www.ieeeusa.org/volunteers/awards/forms.html>
 - IEEE-USA Awards are given to recognize professionalism, technical achievement, and literary contributions to public awareness and understanding of the engineering profession in the United States.
- ▶ **IEEE Standards Awards - deadline 31 July 2013**
<http://standards.ieee.org/develop/awards/index.html>
 - The IEEE-SA recognizes outstanding standards development participation through nine different award categories.

Other Awards

➤ ***IEEE Medals - deadline 1 July 2013***

http://www.ieee.org/about/awards/medals/index_%20medals.html

- IEEE Medals are the highest awards that the IEEE presents on behalf of the IEEE Board of Directors. IEEE Medals embrace significant and broad IEEE interests and purposes. The highest honor is the IEEE Medal of Honor.

➤ ***Award for Distinguished Ethical Practices - deadline 1 July 2013***

http://www.ieee.org/about/ethics/ethics_award.html

- Do you know of an IEEE member or an organization employing IEEE members that has shown exemplary ethical behavior or practices, or has successfully advocated them? Then consider nominating that person or company for the IEEE

Other Awards

➤ ***IEEE Recognitions - deadline 1 July 2013***

<http://www.ieee.org/about/awards/recognitions/index%20recognitions.html>

– IEEE Recognitions are among the highest awards in the hierarchy of IEEE awards. They are presented to individuals or corporations for significant contributions to IEEE or for advances in technology within the technical fields of interest of IEEE.

➤ ***MGA Individual Awards - deadline 15 October 2013***

http://www.ieee.org/societies_communities/geo_activities/awards/recipients/nomform_award.html



IEEE-USA Awards: Additional Information

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IEEE-USA Professionalism Awards

➤ **Robert S. Walleigh Distinguished Contributions to Engineering Professionalism Award**

- To honor members of the engineering profession for long-term dedicated effort and outstanding accomplishments in advancing the aims of IEEE professional activities in the United States.

➤ **Award for Distinguished Public Service**

- To honor individuals not currently in the practice of engineering for contributions to furthering the professional goals of IEEE in the United States. (These goals may be furthered by such means as promulgating laws or regulations benefiting the profession; influencing industrial environments to foster professionalism; creating curricula or publications designed to enhance professionalism; and other similar activities.)

IEEE-USA Professionalism Awards

➤ Citation of Honor

- To honor members who have made exemplary contributions toward achieving the aims of professional activities in the United States.

➤ Precollege Educator-Engineer Partnership Award

- To recognize collaborative activities between K-12 educators and technical professionals who are IEEE members.

➤ IEEE-USA Entrepreneur Achievement Award for Leadership in Entrepreneurial Spirit

- To recognize a key individual who has been instrumental in furthering both entrepreneurial growth and spirit in the United States.

IEEE-USA Professionalism Awards

- ▶ **IEEE-USA Jim Watson Student Professional Awareness Achievement Award**
 - To recognize key individuals for their contributions to Student-Professional Awareness Activities in the United States.
- ▶ **Regional/Divisional Professional Leadership Award**
 - To recognize members for their outstanding leadership efforts in advancing the professional aims of IEEE within their Regional or Divisional entities.
- ▶ **Professional Achievement Award**
 - To recognize significant specific contributions, achievements and individual and organizational efforts in the development and implementation of professional activities in the United States.

IEEE-USA Awards for Technical Achievement

▶ **Harry Diamond Memorial Award**

- To honor individuals for distinguished technical contributions in the field of electrotechnology while in U.S. Government Service.

IEEE-USA Literary Awards

- ▶ **Award for Distinguished Literary Contributions Furthering Public Understanding and the Advancement of the Engineering Profession**
 - To recognize outstanding journalistic or other efforts that contribute to the enhancement and expansion of the public understanding and the advancement of the engineering profession in the United States



MGA Awards: Additional Information

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MGA LK Wilson & Innovation Awards

▶ MGA Larry K Wilson Transnational Award

- recognizes the accomplishment judged to be the most significant and effective in fulfilling one or more of the Transnational goals and objectives of MGA.
- 1 Recipient Annually
- Award Instrument: plaque & cash prize (US\$1,000)

▶ MGA Innovation Award

- recognizes the accomplishment judged to be the most innovative and effective in fulfilling one or more of the goals and objectives of MGA.
- 1 Recipient Annually
- Award Instrument: plaque & cash prize (US\$1,000)

MGA Leadership & Achievement Awards

▶ MGA Leadership Award

- recognizes individuals who have exhibited exemplary and substantive leadership of an extraordinary nature in implementing activities which support MGA goals and objectives at the local, regional, national, and/or international level.
- 3 Recipients annually
- Award Instrument: plaque & cash prize (US\$500)

▶ MGA Achievement Award

- recognizes individuals involved with MGA and/or the Regional Network who are recognized for singular achievement in the development and completion of a project(s) or activity(ies) which are directed to the fulfillment of one or more of the goals and objectives of MGA.
- 6 Recipients annually
- Award Instrument: plaque & cash prize (US\$250)

MGA GOLD Achievement Award

▶ MGA Gold Achievement Award

- recognizes those substantive projects or achievement of a relatively short nature (one to three years), but which have left an undeniable imprint on the fabric of GOLD operations.
- Based on a selection that recognizes individuals involved with GOLD activities who are recognized for singular achievement in the development and completion of a project(s) or activity(ies) which are directed to the fulfillment of one or more of the GOLD goals and/or objectives.
- Must be GOLD members at the time of nomination
- Up to 6 Recipients annually
- Award Instrument: plaque & cash prize (US\$250)

MGA Outstanding Section Awards

➤ MGA Outstanding Section Awards

➤ Large/Small Section Awards

- are awarded to one Large and Small Section, out of the 10 Regions, to recognize the excellent work of the Section in the past year.
- The total membership of a Large Section (including Students) shall be 501 or greater as of 31 December of the prior year.
- The total membership of a small Section (including Students) shall be 500 or less as of 31 December of the prior year
- Award Instrument: plaque

MGA Outstanding Section Awards

- ▶ The following aspects and activities could be considered in selecting the Sections:
 - Submission of financial, officer, and meeting reporting
 - Evidence of retention of members
 - New GOLD Affinity Group Formations
 - Active Student Branch activity such as student paper contest, recruitment of Student Members
 - Continuing Educational activities including conferences, technical activities, training courses
 - Contacts with Section members including newsletters and regular updates to Section, Chapter, and Student Branch Web pages
 - Community projects/service that project positive visibility to IEEE
 - Continuing support for Section/Chapter Activities

Friend of IEEE MGA Award

- ▶ **Friend of Member and Geographic Services Award**
 - recognizes support provided to IEEE and its members in support of its goals by firms, divisions of firms, or individuals.
 - No limit on the number of recipients
 - Award Instrument: plaque

MGA Award Deadlines

- ▶ 15 May 2013
 - MGA Outstanding Large and Small Section Awards

- ▶ 15 October 2013
 - MGA Larry K. Wilson Transnational Award
 - MGA Innovation Award
 - MGA Leadership Award
 - MGA Achievement Award
 - MGA GOLD Achievement Award

- ▶ Anytime
 - Friend of IEEE MGA



EAB Awards: Additional Information

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EAB Awards

▶ **IEEE EAB Meritorious Achievement Award in Accreditation Activities**

- Recognizes IEEE members for efforts to foster the maintenance and improvement of education through the process of accreditation engineering, engineering technology, computer science programs and applied science programs.
- The award consists of US\$1000 and a brass and walnut plaque.

▶ **IEEE EAB Meritorious Achievement Award in Continuing Education**

- Recognizes IEEE members for the dedicated contribution to the design, delivery, and support of continuing education courses and programs in the fields of interest to IEEE members.
- The award consists of US\$1000 and a brass and walnut plaque.

EAB Awards

▶ **IEEE EAB Meritorious Achievement Award in Informal Education**

- Recognizes IEEE members who volunteer in informal education settings for the benefit of teachers, students, parents of students, and the public. These volunteers will have served in advisory, educational or fiduciary positions and used their professional background to enhance understanding and involvement in IEEE's fields of interest by users of the informal education system.
- The award consists of US\$1000 and a walnut plaque.

▶ **IEEE EAB Major Educational Innovation Award**

- Recognizes IEEE members who have distinguished themselves for outstanding educational innovation in a field of interest of the IEEE.
- The award consists of US\$1000 and a brass and walnut plaque.

EAB Awards

▶ **IEEE EAB Pre-University Educator Award**

- Recognizes current pre-university classroom teachers who have inspired an appreciation and understanding of mathematics, science and technology and the engineering process in students and have encouraged students to pursue technical careers.
- The award consists of US\$1000 and a brass and walnut plaque.

▶ **IEEE EAB Meritorious Service Citation**

- Recognizes IEEE members who are past members of the EAB or current or past members of EAB Committees (other than currently serving on ARC) for outstanding and sustained service to the aims and objectives of the IEEE Educational Activities Board.
- The award consists of a brass and walnut plaque.

EAB Awards

- ▶ **IEEE EAB Employer Professional Development Award**
 - Recognizes organizations employing IEEE members for contributions to employee continuing education and professional development.
 - The award consists of a brass and walnut plaque.
- ▶ **IEEE EAB Society/Council Professional Development Award**
 - Recognizes IEEE Societies or Councils for major contributions to the professional development of its members through outstanding products, services and support in the areas of life-long learning, continuing education and professional development.
 - The award consists of a brass and walnut plaque.

EAB Awards

▶ **IEEE Section Professional Development Award**

- Recognizes an IEEE Section for major contributions to the professional development of its members through the provision of outstanding products, services and support in the areas of life-long learning, continuing education and professional development.

▶ **IEEE EAB Vice President's Recognition Award**

- The EAB Vice President's Recognition Award was established in 2001 by the IEEE Educational Activities Board to give the Vice President for Educational Activities an opportunity to recognize IEEE Members or organizations that have had a significant and substantial effect on the practice of engineering and of engineering education related to the mission of the EAB.
- The award consists of a brass and walnut plaque.



IEEE Fellow: Additional Information

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Fellow Goals

- Increase high quality IEEE Fellow nominations that better reflect the general population of the IEEE membership
- Emphasize understanding of the four categories of IEEE Fellow nomination
 - Practitioner
 - Educator
 - Technical Leader
 - Research Engineer / Scientist
- Communicate the IEEE Fellow process to Chapters, Sections, and IEEE Boards
- Emphasize the importance of the Society/Technical Council evaluations.

Outline

- ▶ The Process
 - Nomination Form
 - Society Evaluation
 - Fellow Committee Evaluation

- ▶ IEEE Fellow Categories
 - Practitioner
 - Educator
 - Technical Leader
 - Engineer/Scientist

- ▶ Needs
 - Practitioner Representation
 - More High Quality Nominations
 - Increased Industrial Representation

Fellow Statistics

- ▶ Numbers for IEEE Fellow Class of 2013
 - IEEE voting membership: ~ 330,000
 - IEEE Fellow population: ~ 6000 (1 in 55 or 1.8%)
 - IEEE Fellow nominees: ~ 800 (0.24% of IEEE voting membership)
 - IEEE Fellow Class of 2013: ~ 300 (<0.10% of IEEE voting membership)

- ▶ Notes
 - IEEE By-Laws specify the maximum size of an IEEE Fellow Class as 0.10% of the IEEE Voting membership

The Fellow Process - Nomination

- ▶ Nominee
 - An eligible nominee an IEEE member in good standing (i.e. dues current), an IEEE Senior member, and a member of IEEE for five or more years
- ▶ Nominator
 - An eligible nominator need not be a member of the IEEE
- ▶ Nomination Form
 - Description of Individual Contributions
 - Evidence of Technical Accomplishments
 - References from 5 to 8 IEEE Fellows
 - Endorsements (optional) from up to 3 supporting entities/individuals
 - Description of IEEE Activities, e.g. Awards, Offices held,
 - Description of Non-IEEE Activities, e.g. Awards, Professional Society Memberships, Committee Memberships (Major Professional, Government, or International), Professional Engineers License

The Fellow Process – Society Evaluation

- ▶ Nominees are first evaluated by the Society/Technical Council that best reflects the nominee's field of technical accomplishments (nominator designates the appropriate society/technical council)
- ▶ The Society/Technical Council provides the following nominee evaluation to the IEEE Fellow Committee
 - **A rank order**
 - **A narrative answer:** What is/are one or two of the accomplishments or contributions identified? (200 word limit)
 - **A narrative answer:** Characterize the evidence provided in support of the specific accomplishments
 - **A narrative answer:** Describe the impact of the nominee's work
 - **An "absolute" nominee score**
 - Extraordinarily Qualified (90.0 – 100)
 - Highly Qualified (80.0 – 89.9)
 - Qualified (60.0 – 79.9)
 - Marginally Qualified (50.0 – 59.9)
 - Not qualified (00.0 – 49.9)

The Fellow Process – IEEE Fellow Committee Evaluation

- ▶ Fellow Committee Judges are divided into 10 groups (5 members) and each group is randomly assigned, subject to conflict of interest checks, the same 10% of the nominee population, ~ 80 nominees

- ▶ Judges rate the nominees from 100 to 0 in four categories
 - Technical Accomplishments 40 points
 - Society/Technical Council 25 points
 - References/Endorsements 15 points
 - IEEE and non IEEE Professional Activities 10 points

- ▶ Some Observations
 - The “Society Evaluation” information from the Society/Technical Council Evaluating Committees carries the most impact for the Judge
 - The Nominator descriptions of the nominee’s accomplishments and evidence of accomplishments re obviously important

- ▶ Final nominee selection is determined during a 2 day general meeting of the IEEE Fellow Committee

The Fellow Nomination Categories

- ▶ **Research Engineer / Scientist** (76% of the nomination pool)
 - Contributions take the form of inventions, discoveries or advances in the state of the art. Equally likely to be a professor in **academia** or an engineer in **industry**.
 - Typical profile: Sustained technical contributions, over a 15 year period, which are documented by significant (quality and quantity) publications or patents

- ▶ **Educator** (5% of the nomination pool)
 - Contributions take the form of unique and innovative curricula / courses, support to engineering education as an administrator, or authorship of a pioneering text
 - Typical profile: Technical contributions in early career followed by transition to engineering education and possibly positions in **university** administration

The Fellow Nomination Categories (continued)

- ▶ **Technical Leader** (11% of the nomination pool)
 - Contributions take the form of engineering application or scientific accomplishments from leading a managerial, team, or company-wide effort
 - Typical profile: Technical contributions in early career then transition to engineering management positions in **industry**. Minimal publications or patents

- ▶ **Practitioner** (8% of the nomination pool)
 - Contributions take the form of product or standards development, advancement in systems, infrastructure activity or manufacturing from the nominee's personal effort.
 - Typical profile: An engineer in **industry** and not in management, with ~ 15 years of experience. Accomplishments are in a product or service or standard that are used pervasively within the engineering community. Minimal publications or patents.

Practitioner Category for IEEE Fellow

- ▶ **Success for the “Practitioner” nominee at the IEEE Fellow Committee**
 - The Fellow Committee members must have awareness of the “Practitioner” category
 - Nominator must convincingly address the accomplishments and evidence of the accomplishments of the nominee
 - References must provide convincing explanations of these accomplishments

- ▶ **Success for the “Practitioner” nominee at the IEEE Society Fellow Evaluating Committee**
 - The Society Evaluating Committee members must have awareness of the “Practitioner” category
 - Nominator must convincingly address the accomplishments and evidence of the accomplishments of the nominee

- ▶ **Success for the “Practitioner” nominee at Regions, Sections, and Chapters**
 - The Regions, Sections, and Chapters must have awareness of the “Practitioner” category
 - Work with societies/technical councils to identify qualified practitioners

Successful Practitioner Profile - 3 Examples

- ▶ Quantified impact statement related to infrastructure and/or product
- ▶ Endorsements
- ▶ Very small number of IEEE publications

Example A

- | | |
|-----------------------|--|
| – Education | BS in 1965, Industry |
| – Society Score | 91 |
| – Society Rank | 5 of 14 |
| – Impact Statement | “Green”/“Infrastructure” |
| – Technical Evidence | \$ impact quantified, 3 IEEE papers, 3 non IEEE papers |
| – IEEE Activities | IEEE best paper, IEEE Society involvement |
| – Non IEEE Activities | Standards groups, professional Eng |
| – Endorsements | 3 strong inputs |
| – References | 2 consultants, 2 academic, 1 industry |

Successful Practitioner Profile 3

Examples (continued)

- ▶ Quantified impact statement related to infrastructure and/or product
- ▶ Endorsements
- ▶ Very small number of IEEE publications

Example B

– Education	MS in 1981, Industry
– Society Score	88
– Society Rank	6 of 18
– Impact Statement	“Safety/Health”
– Technical Evidence	\$ impact quantified, 1 IEEE paper, 6 non IEEE papers
– IEEE Activities	IEEE best paper, Standards group
– Non IEEE Activities	Professional Eng, Internal company awards
– Endorsements	3 strong inputs
– References	2 consultants, 1 industry executive, 2 academic

Successful Practitioner Profile 3

Examples (continued)

- ▶ Quantified impact statement related to infrastructure and/or product
- ▶ Endorsements
- ▶ Very small number of IEEE publications

Example C

– Education	PhD in 1977, Industry
– Society Score	95
– Society Rank	3 of 14
– Impact Statement	“Company Savings”
– Technical Evidence	\$ impact quantified, 3 internal papers, 5 IEEE papers
– IEEE Activities	30 referred IEEE papers
– Non IEEE Activities	Service on national evaluation committees, membership in major national society
– Endorsements	2 strong inputs
– References	3 industry, 1 consultant, 2 academic

Industry vs. Academic Nominations

- ▶ The typical nomination pool consists of 60% academic nominees vs. 30% industrial nominees. (Government and Consultant disciplines account for the remaining 10% of the nomination pool)
- ▶ Independent of the 2:1 ratio of academic to industry nominations, the acceptance rate for both categories is identical ~ 38%.
- ▶ Why are there more academic nominations than industry nominations?
 - Academia has infrastructures that create nominations which ultimately enhance faculty careers and university prestige . Aside from a few large companies (IBM, HP, Intel, AT&T, ...) such an infrastructure does not exist within industry.
 - Fellow designation enhances an academics career (tenure, government funding)
 - Fellow designation does not comparably enhance an engineering career.

Summary of Recommendations

- ▶ Industry Representation issues can only be solved by more high quality nominations from Industry.
 - Suggestion – Societies establish “search” committees to identify industrial nominees
 - Suggestion – Regions, Sections, and Chapters establish “search” committees to identify industrial nominees
- ▶ Successful nominees are characterized as having **well written nomination packets** (nominator and references).
- ▶ **Reality** -- The “Society Evaluation” information from the Society/Technical Council Evaluating Committees carries the most impact for the Judge